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1. Document ID: US 20030184293 A1 Relevance Rank: 50

L3: Entry 3 of 6

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030184293

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030184293 A1

TITLE: Multiple channel, microstrip transceiver volume array for magnetic resonance imaging

PUBLICATION-DATE: October 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Boskamp, Eddy Benjamin	Menomonee Falls	WI	US	
Lee, Ray F.	Clifton Park	NY	US	

APPL-NO: 10/ 063223 [PALM]

DATE FILED: April 1, 2002

INT-CL: [07] G01 V 3/00

US-CL-PUBLISHED: 324/318; 324/322, 324/309

US-CL-CURRENT: 324/318; 324/309, 324/322

REPRESENTATIVE-FIGURES: 4, 5

ABSTRACT:

A multiple channel array coil for magnetic resonance imaging (MRI) is disclosed. In an exemplary embodiment, the array coil includes a plurality of conductive strips formed within a dielectric medium. The conductive strips are further arranged into a generally cylindrical configuration, with each of the strips having a length (l), selected to cause each of the strips to serve as a resonator at a frequency corresponding to a proton MRI frequency. Thereby, the generally cylindrical configuration of conductive strips forms a multiple channel, volume resonator in which each of the strips is isolated from the remaining strips.

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [References](#) [Sequences](#) [Attachments](#) [Claims](#) [TOC](#) [Drawings](#)

2. Document ID: US 20030020476 A1 Relevance Rank: 48

L3: Entry 4 of 6

File: PGPB

Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030020476

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030020476 A1

TITLE: Method and apparatus for magnetic resonance imaging

PUBLICATION-DATE: January 30, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Duensing, G. Randy	Gainesville	FL	US	

APPL-NO: 10/ 200893 [PALM]

DATE FILED: July 22, 2002

## RELATED-US-APPL-DATA:

Application is a non-provisional-of-provisional application 60/306962, filed July 20, 2001,

INT-CL: [07] G01 V 3/00

US-CL-PUBLISHED: 324/318; 324/309

US-CL-CURRENT: 324/318; 324/309

REPRESENTATIVE-FIGURES: 8A 8B

## ABSTRACT:

The subject invention pertains to a method and apparatus utilizing one or more spiral coils, such as spiral birdcage coils, spiral saddle coils, Helmholtz coil pairs, and other spiral volume and spiral surface coils. The spiral coils of the subject array can be substantially isolated from each other while covering nearly the same volume or surface. For cylindrical geometrics, isolation can be enhanced by having the rotation, or change in direction from one end of the coil to the other, be  $2n\pi$ , where n is an integer.

## CROSS-REFERENCE TO RELATED APPLICATION(S)

[0001] The present application claims the benefit of U.S. Provisional Patent Application Serial No. 60/306,962; filed Jul. 20, 2001, which is hereby incorporated by reference herein in its entirety, including any figures, tables, or drawings.

Full	Title	Citation	From	Review	Classification	Date	Reference	Sequences	Attachments	Claims	HTML	Print
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 3. Document ID: US 20050084453 A1 Relevance Rank: 48

L3: Entry 1 of 6

File: PGPB

Apr 21, 2005

PGPUB-DOCUMENT-NUMBER: 20050084453  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050084453 A1

TITLE: Liposome-containing radiographic contrast medium and preparation method thereof

PUBLICATION-DATE: April 21, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ueda, Eiichi	Tokyo		JP	
Kawakatsu, Satoshi	Tokyo		JP	
Nakajima, Akihisa	Sagamihara-shi		JP	
Nagaike, Chiaki	Asaka-shi		JP	

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	COUNTRY	TYPE CODE
Konica Minolta Medical & Graphic, Inc.	Tokyo		JP	03

APPL-NO: 10/ 824095 [PALM]

DATE FILED: April 13, 2004

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
JP	JP2003-360769	2003JP-JP2003-360769	October 21, 2003
JP	JP2003-382983	2003JP-JP2003-382983	November 12, 2003
JP	JP2003-392678	2003JP-JP2003-392678	November 21, 2003
JP	JP2003-392679	2003JP-JP2003-392679	November 21, 2003
JP	JP2004-085168	2004JP-JP2004-085168	March 23, 2004

INT-CL: [07] A61 K 49/04

US-CL-PUBLISHED: 424/009.45

US-CL-CURRENT: 424/9.45

ABSTRACT:

A radiographic contrast medium is disclosed, comprising a liposome which is comprised of vesicles including a water- and soluble nonionic iodine compound, and the contrast medium containing substantially no chlorinated solvent. There is also disclosed a method of preparing the radiographic contrast medium using supercritical or subcritical carbon dioxide.

[Full](#) [Title](#) [Citation](#) [Effect](#) [Review](#) [Classification](#) [Date](#) [References](#) [Sequences](#) [Attachments](#) [Claims](#) [TOC](#) [Drawn](#)

4. Document ID: US 20040030238 A1 Relevance Rank: 40

L3: Entry 2 of 6

File: PGPB

Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040030238  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040030238 A1

TITLE: Cavity resonator for MR systems

PUBLICATION-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Vaughan, John T.	Stillwater	MN	US	

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	COUNTRY	TYPE CODE
MR Instruments, Inc.	Minneapolis	MN		02

APPL-NO: 10/ 440641 [PALM]

DATE FILED: May 19, 2003

RELATED-US-APPL-DATA:

Application is a non-provisional-of-provisional application 60/381356, filed May 17, 2002,

INT-CL: [07] A61 B 5/055, G01 V 3/00

US-CL-PUBLISHED: 600/418; 600/422, 324/318

US-CL-CURRENT: 600/418; 324/318, 600/422

REPRESENTATIVE-FIGURES: 3

ABSTRACT:

An magnetic resonance apparatus in embodiments of the invention may include one or more of the following features: (a) a coil having at least two sections, (b) the at least two sections having a resonant circuit, (c) the at least two sections being wirelessly coupled or decoupled, (d) the at least two sections being separable, (e) several openings allowing a subject to see and be accessed through the coil, (f) at least one cushioned head restraint, and (g) a subject input/output device providing visual data from in front and behind of the coil respectively; wherein the input/output device is selected from the group consisting of mirrors, prisms, video monitors, LCD devices, and optical motion trackers.

Full  Title  Citation  Event  Person  Classification  Date  Reference  Sequences  Attachments  Claims  TOC  DTSO

5. Document ID: US 6337169 B1 Relevance Rank: 36

L3: Entry 5 of 6

File: USPT

Jan 8, 2002

US-PAT-NO: 6337169

DOCUMENT-IDENTIFIER: US 6337169 B1

TITLE: Toner and image forming method using the toner

DATE-ISSUED: January 8, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hashimoto; Akira	Numazu			JP
Yoshida; Satoshi	Tokyo			JP
Ohno; Manabu	Numazu			JP
Ayaki; Yasukazu	Numazu			JP
Handa; Satoshi	Shizuoka-ken			JP
Komoto; Keiji	Numazu			JP

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Canon Kabushiki Kaisha	Tokyo			JP	03

APPL-NO: 09/ 606172 [PALM]

DATE FILED: June 29, 2000

## PARENT-CASE:

This is a division of Application No. 09/221,140, filed Dec. 28, 1998, which is now U.S. Pat. No. 6,177,223 B1.

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO.	APPL-DATE
JP	9-368006	December 27, 1997
JP	10-363682	December 22, 1998

INT-CL: [07] G03 G 13/16, G03 G 9/08

US-CL-ISSUED: 430/126; 430/110.1, 430/110.3, 430/111.4, 430/124, 430/125, 430/108.8

US-CL-CURRENT: 430/126; 430/108.8, 430/110.1, 430/110.3, 430/111.4, 430/124,  
430/125FIELD-OF-SEARCH: 430/106, 430/109, 430/110, 430/111, 430/120, 430/124, 430/125,  
430/126, 430/108.8, 430/108.9, 430/110.1, 430/110.2, 430/110.3, 430/111.4

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4740443</u>	April 1988	Nakahara et al.	430/110

<u>5283149</u>	February 1994	Tyagi et al.	430/106
<u>5413890</u>	May 1995	Mori et al.	430/110
<u>5698354</u>	December 1997	Ugai et al.	430/111
<u>5753396</u>	May 1998	Nakamura et al.	430/111

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0595642	May 1994	EP	
0658816	June 1995	EP	
0743563	November 1996	EP	

## OTHER PUBLICATIONS

Patent Abstracts of Japan., 10, 264 (R495) 9/86 for JP61-088271.  
 Patent Abstracts of Japan., 14, 011, (P-988) 1/90 for JP01-259369.  
 Database WPI, Sec.Ch,Wk.8737, Derwent Publ., AN87-260561; XP002099658 of JP  
 62180374A.  
 Database WPI, Sec.Ch, WK.8537, Derwent Publ., AN85-226964, XP002099659 of JP  
 60147748A.

ART-UNIT: 1753

PRIMARY-EXAMINER: Dote; Janis L.

ATTY-AGENT-FIRM: Fitzpatrick, Cella, Harper &amp; Scinto

## ABSTRACT:

A toner suitable for use in electrophotography, etc., is composed of toner particles each containing a binder resin, a colorant and a wax component. Each toner particle has such a microtexture as to provide a cross section as observed through a transmission electron microscope (TEM) exhibiting a matrix of the binder resin, a particle of the wax enclosed with the matrix; and the binder resin dispersed in a particulate form in the wax particle, and the toner particles have a residual monomer content of at most 500 ppm by weight of the toner particles. The colorant may also be dispersed in the wax particle enclosed within the matrix of the binder resin.

45 Claims, 9 Drawing figures

US-PAT-NO	Entered Date	Review	Classification	Date	Reference		Claims		
6177223	2001-01-12	2001-01-12	2001-01-12	2001-01-12	2001-01-12	2001-01-12	2001-01-12	2001-01-12	2001-01-12

6. Document ID: US 6177223 B1      Relevance Rank: 35

L3: Entry 6 of 6

File: USPT

Jan 23, 2001

US-PAT-NO: 6177223

DOCUMENT-IDENTIFIER: US 6177223 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Toner and image forming method using the toner

DATE-ISSUED: January 23, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hashimoto; Akira	Numazu			JP
Yoshida; Satoshi	Tokyo			JP
Ohno; Manabu	Numazu			JP
Ayaki; Yasukazu	Numazu			JP
Handa; Satoshi	Shizuoka-Ken			JP
Komoto; Keiji	Numazu			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Canon Kabushiki Kaisha	Tokyo			JP	03

APPL-NO: 09/ 221140 [PALM]

DATE FILED: December 28, 1998

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	9-368006	December 27, 1997
JP	10-363682	December 22, 1998

INT-CL: [07] G03 G 13/16, G03 G 9/08

US-CL-ISSUED: 430/126; 430/109, 430/110, 430/111, 430/124, 430/125

US-CL-CURRENT: 430/126; 430/110.1, 430/110.2, 430/110.3, 430/111.4, 430/124,  
430/125

FIELD-OF-SEARCH: 430/109, 430/110, 430/111, 430/120, 430/124, 430/125, 430/126

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5413890</u>	May 1995	Mori et al.	430/110
<u>5753396</u>	May 1998	Nakamura et al.	430/111

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0595642	May 1994	EP	
0658816	June 1995	EP	
0743563	November 1996	EP	

OTHER PUBLICATIONS

Patent Abstracts of Japan., 10, 264 (R495) Sep. 1986 for JP61-088271.  
Patent Abstracts of Japan., 14, 011, (P-988) Jan. 1990 for JP01-259369.  
Database WPI, Sec.Ch, Wk.8737, Derwent Publ., AN87-260561; XP002099658 of JP  
62180374.  
Database WPI, Sec.Ch, WK.8537, Derwent Publ., AN85-226964, XP002099659 of JP  
60147748.

ART-UNIT: 173

PRIMARY-EXAMINER: Dote; Janis L.

ATTY-AGENT-FIRM: Fitzpatrick, Cella, Harper & Scinto

ABSTRACT:

A toner suitable for use in electrophotography, etc., is composed of toner particles each containing a binder resin, a colorant and a wax component. Each toner particle has such a microtexture as to provide a cross section as observed through a transmission electron microscope (TEM) exhibiting a matrix of the binder resin, a particle of the wax enclosed with the matrix; and the binder resin dispersed in a particulate form in the wax particle, and the toner particles have a residual monomer content of at most 500 ppm by weight of the toner particles. The colorant may also be dispersed in the wax particle enclosed within the matrix of the binder resin.

44 Claims, 9 Drawing figures

Full  Title  Citation  Front  Review  Classification  Date  Reference   Claims  TOC  Open [C]

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Term	Documents
MAGNETIC	1505988
MAGNETICS	13209
RESONANCE	299628
RESONANCES	17537
MRI	27934
MRIS	395
NMR	148010
NMRS	256
(2 AND (MRI OR (MAGNETIC ADJ RESONANCE) OR NMR)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	6
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PARALLELS	17473
IMAG\$4	0
IMAG	5229
IMAGA	101
IMAGABIE	2
IMAGABLE	694
IMAGADES	1
IMAGAE	16
IMAGAES	5
IMAGAGE	4
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### Search History

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<u>L5</u>	L4 and ((magnetic adj resonance) or MRI or NMR)	4025	<u>L5</u>
<u>L4</u>	((transverse adj electromagnetic adj wave adj resonator) or Tem)	279640	<u>L4</u>
<u>L3</u>	L2 and ((magnetic adj resonance) or MRI or NMR)	6	<u>L3</u>
<u>L2</u>	L1 and (Parallel adj (imag\$4 or scan))	78	<u>L2</u>
<u>L1</u>	((transverse adj electromagnetic) or TEM)	280048	<u>L1</u>

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Term	Documents
MAGNETIC	1505988
MAGNETICS	13209
RESONANCE	299628
RESONANCES	17537
MRI	27934
MRIS	395
NMR	148010
NMRS	256
(2 AND (MRI OR (MAGNETIC ADJ RESONANCE) OR NMR)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	6
(L2 AND ((MAGNETIC ADJ RESONANCE) OR MRI OR NMR )).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	6

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<u>L2</u>	L1 and (Parallel adj (imag\$4 or scan))	78	<u>L2</u>
<u>L1</u>	((transverse adj electromagnetic) or TEM)	280048	<u>L1</u>

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